

Exercise 27

For the following exercises, evaluate f at the indicated values $f(-3)$, $f(2)$, $f(-a)$, $-f(a)$, $f(a+h)$.

$$f(x) = 2x - 5$$

Solution

Evaluate the function at each of the given numbers.

$$f(-3) = 2(-3) - 5 = -6 - 5 = -11$$

$$f(2) = 2(2) - 5 = 4 - 5 = -1$$

$$f(-a) = 2(-a) - 5 = -2a - 5$$

$$-f(a) = -[2(a) - 5] = -(2a - 5) = -2a + 5$$

$$f(a+h) = 2(a+h) - 5 = 2a + 2h - 5$$